## **REMARKS**

The purpose of this Preliminary Amendment is to eliminate multiple dependent claims in order to avoid the additional fee. Applicants reserve the right to reintroduce claims to canceled combined subject matter.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached pages are captioned "Version With Markings to Show Changes Made".

Respectfully submitted,

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## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

3. (Amended) 17β-Hydroxy-19-halogen-androsta-4,9(11)-dien-3-ones according to one of claims 1 or 2,claim 1, characterized by

17β-Hydroxy-19-iodo-androsta-4,9(11)-dien-3-one, 17β-Hydroxy-19-<sup>125</sup>iodo-androsta-4,9(11)-dien-3-one or 19-Bromo-17β-hydroxy-androsta-4,9(11)-dien-3-one.

- 4. (Amended) Process for the production of  $17\beta$ -hydroxy-19-halogen-androsta-4,9(11)-dien-3-ones of general formula I according to one of claims 1 to 3,claim 1, wherein starting from 3,3-(2,2-dimethyl-trimethylenedioxy)-10 $\beta$ -formyl-androst-9(11)-ene-5 $\alpha$ ,17 $\beta$ -diol
  - a) The C-17 $\beta$ -hydroxy group is protected by silylation,
  - b) The 10β-formyl group is reduced to the C-19-hydroxy compound,
  - c) The thus produced 17β-silylated-3,3-(2,2-dimethyl-trimethylenedioxy)-androst-9(11)-ene-5α,19-diol is reacted with elementary halogen or radiohalogen, selected from Br or I, to form 17β-silylated-3,3-(2,2-dimethyl-trimethylenedioxy)-19-halogen-androst-9(11)-en-5α-ol,
  - d) Water is cleaved off, and
  - e) The thus produced isomer mixture that consists of 17β-silylated-3,3-(2,2-dimethyl-trimethylenedioxy)-19-halogen-androsta-5,9(11)-diene and 17β-silylated-3,3-(2,2-dimethyl-trimethylenedioxy)-19-halogen-androsta-4,9(11)-diene is mixed with a strong protonic acid for the formation of target compounds I.

- 6. (Amended) Process according to claim 4 or 5, wherein the halogen or radiohalgen is added in a small excess.
- 7. (Amended) Process according to one of claims 4 to 6, claim 4, wherein the dehydration is carried out under standard conditions, preferably with thionyl chloride/pyridine.
- 8. (Amended) Process according to one of claims 4 to 7, claim 4, wherein trifluoroacetic acid, sulfuric acid or methanesulfonic acid is used as a strong protonic acid.
- 9. (Amended) Use of the compounds of general formula I according to one of claims 1 to 3claim 1 as a diagnostic agent.
- 11. (Amended) Use of the non-labeled compounds of general formula I according to one of claims 1 to 3claim 1 as starting products for the production of 5 $\beta$ -substituted androst-9(11)-enes of general formula II with radical R in the meaning of:  $R = -(CH_2)_n-CH_2-R^1$ ,  $-(CH_2)_n-CH_2$ -OR<sup>1</sup>,  $-(CH_2)_n-CH_2-SR^1$ ,  $-(CH_2)_n-CH_2-NR^1R^2$ ,  $-(CH_2)_n-CH_2$ ,  $-(CH_2)_n-CH_2$ , in which n can assume the values of 0-5, and radicals  $R^1$  and  $R^2$ , independently of one another, stand for hydrogen or a straight-chain or branched, saturated or unsaturated hydrocarbon radical with up to 18 C atoms, whereby this radical optionally can contain additional functional groups and carbocyclic or heterocyclic ring elements.
- 15. (Amended) Use of the non-labeled compounds of general formula I according to one of claims 1 to 3claim 1 as starting products for the production of  $6\beta$ ,19-cycloandrostadienes of general formula III, in which X = O or the grouping  $17\beta$ -OR,  $17\alpha$ -H, with R in the meaning of H, C1-C10-alkyl, C1-C10-acyl, whereby the acyl radical is derived from an aliphatic or aromatic carboxylic acid.

19. (Amended) Process according to claim 17-or-18, wherein the base treatment is carried out in an aprotic solvent.